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APPLICATION NO. FII		LING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,410	-	01/25/2001	Christian Huber	P-576	6186
25732	7590	10/11/2002			
JOHN F. B	RADY		EXAMINER		
TRANSGER 2032 CONC	COURSÉ L	DRIVE	THERKORN, ERNEST G		
SAN JOSE,	CA 9513	31		ART UNIT	PAPER NUMBER
				1723	• .
				DATE MAILED: 10/11/2002	12

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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		Application I		Applicantisi	<i>,</i> – ———————————————————————————————————				
	Office Action Summary	09/7	70,410	HUBI	EL				
	Office Action Summary	Examiner			Art Unit				
		[[H	ERKOR	, M	1723				
	The MAILING DATE of this communication appears	on the cove	er sheet with	h the corres	spondence addres	s			
Period 1	for Reply		٠ '۵		WO. 55.55				
	ORTENED STATUTORY PERIOD FOR REPLY IS SET	r to expiri		MONTH	H(S) FROM				
	MAILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.136 (a). Ir	n no event, howe	ver, may a reply	be timely filed	after SIX (6) MONTHS	from the			
	date of this communication. period for reply specified above is less than thirty (30) days, a reply within t	the statutory min	imum of thirty (30) davs will b	e considered timely.				
- If NO p	period for reply is specified above, the maximum statutory period will apply	and will expire S	IX (6) MONTHS	from the mailir	ng date of this communi	cation.			
- Any re	to reply within the set or extended period for reply will, by statute, cause t ply received by the Office later than three months after the mailing date of								
earned Status	patent term adjustment. See 37 CFR 1.704(b).								
1)	Responsive to communication(s) filed on Se	pt 30	2003	٤		·			
2a) 🗌	This action is FINAL . 2b) This ac	tion is non-	final.						
3) 🗌	Since this application is in condition for allowance closed in accordance with the practice under Ex pa					merits is			
	tion of Claims	0	07						
•	Claim(s) 51-76, 79-92, 95				e pending in the				
4	la) Of the above, claim(s)			is/ar	e withdrawn fro	m consideration.			
5) 🗆	Claim(s)				is/are allowed.				
6)	Claim(s) 51-76, 79-92, 95	, and	97		is/are rejected.	·			
7) 🗌	Claim(s)				is/are objected t	o.			
8) 🗆	Claims are subject to restriction and/or election requirement								
Applica	ition Papers								
9) 🗌	The specification is objected to by the Examiner.								
10)	The drawing(s) filed on is/are	e a) 🗌 acc	epted or b)□ objecte	ed to by the Exa	miner.			
	Applicant may not request that any objection to the	drawing(s) b	e held in ab	eyance. Se	e 37 CFR 1.85(a)				
11)	The proposed drawing correction filed on		_ is: a)□	approved	b)□ disapprove	d by the Examiner.			
	If approved, corrected drawings are required in reply	to this Offic	e action.						
12)	The oath or declaration is objected to by the Exam	niner.							
Priority	under 35 U.S.C. §§ 119 and 120								
13)	Acknowledgement is made of a claim for foreign p	oriority unde	er 35 U.S.C	c. § 119(a)	-(d) or (f).				
a)[☐ All b)☐ Some* c)☐ None of:								
	1. \square Certified copies of the priority documents ha	ve been rec	eived.						
	2. \square Certified copies of the priority documents ha	ve been rec	eived in Ap	plication N	No	·			
	3. Copies of the certified copies of the priority of application from the International Bure	eau (PCT Ru	ıle 17.2(a))		this National St	age			
*S	ee the attached detailed Office action for a list of the	he certified	copies not	received.					
14) 📙	Acknowledgement is made of a claim for domestic								
a) [
15)∟	Acknowledgement is made of a claim for domestic	c priority un	der 35 U.S	S.C. §§ 12	0 and/or 121.				
Attachm		🗂	_						
-	otice of References Cited (PTO-892)	_	sw Summary (P						
-	otice of Draftsperson's Patent Drawing Review (PTO-948)		of Informal Pate	ent Application	(PTO-152)				
3) X Inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) U Other:							

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The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321© may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 51-76, 79-92, 95, and 97 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over the claims of U.S. Patent No. 6,355,791 and allowed application no. 09/848,385 in view of in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457). At best, the claims differ from each of U.S. Patent No. 6,355,791 and allowed application no. 09/848,385 in reciting use of a fused silica capillary, the clarity of covalent bonding, and a size of less than one millimeter in diameter. Peters

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(Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns is the trend in chromatography because of improved concentration detection limits and the small amounts of sample available for analysis. It would have been obvious to use a fused silica column in each of U.S. Patent No. 6,355,791 and allowed application no. 09/848,385 because Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. It would have been obvious that the polymer is covalently bound because Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. It would have been obvious to use a column less than 1 millimeter in diameter because Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns is the trend in chromatography because of improved concentration detection limits and the small amounts of sample available for analysis.

Claim 74 is rejected under 35 U.S.C. 101 as double patenting claim 73 because claim 74 has the same scope as 73.

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Claim 74 is rejected under 35 U.S.C. 112, second paragraph, as being an improper dependent claim because it does not further limit claim 73.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 51-76, 79-92, 95, and 97 are rejected under 35 U.S.C. 102(A) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Gusev, Journal of Chromatography, 1999, pages 273-290. The claims are considered to read on Gusev, Journal of Chromatography, 1999, pages 273-290. However, if a difference exists between the claims and Gusev, Journal of Chromatography, 1999, pages 273-290, it would reside in optimizing the elements of Gusev, Journal of Chromatography, 1999, pages 273-290. It would have been obvious to optimize the elements of Gusev, Journal of Chromatography, 1999, pages 273-290 to enhance separation.

Claims 57-58 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gusev, Journal of Chromatography, 1999, pages 273-290 in view of Peters (U.S. Patent No. 5,929,214). At best, the claims differ from Gusev, Journal of Chromatography, 1999, pages 273-

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290 in reciting channels sufficiently large to allow convective flow. Peters (U.S. Patent No. 5,929,214) (column 2, lines 27-37) discloses that large channels that allow convective flow also allow high flow rates through a monolith. It would have been obvious to have sufficiently large channels to allow convective flow in Gusev, Journal of Chromatography, 1999, pages 273-290 because Peters (U.S. Patent No. 5,929,214) (column 2, lines 27-37) discloses that large channels that allow convective flow also allow high flow rates through a monolith.

Claim 91 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gusev, Journal of Chromatography, 1999, pages 273-290 in view of Girot (U.S. Patent No. 6,045,697). At best, the claim differs from Gusev, Journal of Chromatography, 1999, pages 273-290 in reciting use of a tetrahydrofuran porogen. Girot (U.S. Patent No. 6,045,697) (column 16, lines 3-16) discloses that tetrahydrofuran is a suitable porogen. It would have been obvious to use tetrahydrofuran as a porogen in Gusev, Journal of Chromatography, 1999, pages 273-290 because Girot (U.S. Patent No. 6,045,697) (column 16, lines 3-16) discloses that tetrahydrofuran is a suitable porogen.

Claim 95 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gusev, Journal of Chromatography, 1999, pages 273-290 in view of either Huber (Anal. Chem. 1998, 70, 5288-5295) or Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997). At best, the claim differs from Gusev, Journal of Chromatography, 1999, pages 273-290 in reciting use of a mass spectrometer. Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range. Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses

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that electrospray mass spectrometry is a gentle sensitive method of analysis. It would have been obvious to use mass spectrometry in Gusev, Journal of Chromatography, 1999, pages 273-290 either because Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range or because Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses that electrospray mass spectrometry is a gentle sensitive method of analysis.

Claims 51-66, 71, 73-76, 79-85, and 95 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457). At best, the claims differ from each of Frechet (U.S. Patent No. 5,344,310) and Hatch (U.S. Patent No. 6,238,565) in reciting use of a fused silica capillary, the clarity of covalent bonding, and a size of less than one millimeter in diameter. Frechet (U.S. Patent No. 5,344,310) itself (column 4, line 27) discloses a glass column. Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns is the trend in chromatography because of improved concentration detection limits and the small

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amounts of sample available for analysis. It would have been obvious to use a fused silica column in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) because Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. It would have been obvious that the polymer is covalently bound because Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. It would have been obvious to use a column less than 1 millimeter in diameter because Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns is the trend in chromatography because of improved concentration detection limits and the small amounts of sample available for analysis.

Claims 67-70 and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649) and Huang (Journal of Chromatography 788 (1997) 155-164). At best, the claims differ from each of Frechet (U.S. Patent No. 5,344,310) and Hatch (U.S. Patent No. 6,238,565) in reciting use of a fused silica capillary and the clarity of covalent bonding. Frechet (U.S. Patent No. 5,344,310) itself (column 4, line 27) discloses a glass column. Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. Huang (Journal of Chromatography 788 (1997) 155-164) (the

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paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. It would have been obvious to use a fused silica column in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) because Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. It would have been obvious that the polymer is covalently bound because Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer.

Claims 86-92 and 97 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649) and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457). At best, the claims differ from each of Frechet (U.S. Patent No. 5,344,310) and Hatch (U.S. Patent No. 6,238,565) in reciting use of a fused silica capillary and a size of less than one millimeter in diameter. Frechet (U.S. Patent No. 5,344,310) itself (column 4, line 27) discloses a glass column. Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns is the trend in chromatography because of improved concentration detection limits and the small amounts of sample available for analysis. It would have been obvious to use a fused silica column in either Frechet (U.S. Patent

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No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) because Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. It would have been obvious to use a column less than 1 millimeter in diameter because Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns is the trend in chromatography because of improved concentration detection limits and the small amounts of sample available for analysis.

Claims 57-58 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) as applied to claims 51-66, 71, 73-76, 79-85, and 95 above, and further in view of Peters (U.S. Patent No. 5,929,214). At best, the claims differ from either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) in reciting channels sufficiently large to allow convective flow. Peters (U.S. Patent No. 5,929,214) (column 2, lines 27-37) discloses that large channels that allow convective flow also allow high flow rates through a monolith. It would have been obvious to have sufficiently large channels to allow convective flow in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of

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Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) because Peters (U.S. Patent No. 5,929,214) (column 2, lines 27-37) discloses that large channels that allow convective flow also allow high flow rates through a monolith.

Claim 91 is rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649) and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) as applied to claims 86-92 and 97 above, and further in view of Girot (U.S. Patent No. 6,045,697). At best, the claim differs from either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649) and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) in reciting a tetrahydrofuran porogen. Girot (U.S. Patent No. 6,045,697) (column 16, lines 3-16) discloses that tetrahydrofuran is a suitable porogen. It would have been obvious to use tetrahydrofuran as a porogen in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649) and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) because Girot (U.S. Patent No. 6,045,697) (column 16, lines 3-16) discloses that tetrahydrofuran is a suitable porogen.

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79-85, and 95 above, and further in view of either Huber (Anal. Chem. 1998, 70, 5288-5295) or Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997). At best, the claim differs from either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) in reciting use of a mass spectrometer. Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range. Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses that electrospray mass spectrometry is a gentle sensitive method of analysis. It would have been obvious to use mass spectrometry in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) either because Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range or because Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses that electrospray mass spectrometry is a gentle sensitive method of analysis.

The restriction requirement has been reconsidered, deemed proper, and made final for the reasons of record.

Any inquiry concerning this communication should be directed to E. Therkorn at

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telephone number (703) 308-0362.

Ernest G. Therkorn Primary Examiner Art Unit 1723

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